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PARTHENOPE.

Durham. Fraunhofer Equatoreal. (Mr. R. C. Carrington.)

1851.	Green. M.T.	R.A.	Exc. of Ephem.	N.P.D.	Exc. of Ephem.	No. of Comps. in R.A.	No. of Comps. in N.P.D.	Set.
	h m s	h m s	s	° ′ ″	″			
Aug. 28	12 17 15·4	2 19 22·56	+4·84	82 28 44·7	−26·9	18	6	1
30	12 15 51·3	19 55·39	4·49	32 18·0	28·2	12	4	2
Sept. 5	12 52 12·1	20 49·66	5·83	46 35·5	29·2	15	5	3
6	13 45 55·8	20 52·51	6·08	49 35·8	30·0	15	5	4
9	13 22 22·1	20 50·34	6·30	82 58 57·0	23·0	24	8	5
11	13 0 37·6	20 39·95	6·43	83 6 1·2	27·9	18	6	6
13	13 36 23·1	20 21·76	6·77	13 43·1	28·8	15	5	7
21	14 35 22·1	17 56·70	7·57	83 49 15·9	25·6	9	3	8
27	14 34 29·4	14 55·21	8·07	84 20 17·5	21·2	24	8	9
28	15 13 57·8	14 18·37	8·11	25 55·1	21·0	15	5	10
Oct. 4	14 32 55·2	10 14·70	8·09	84 59 52·1	21·5	8	3	11
11	14 11 17·0	4 36·07	8·31	85 40 47·9	21·0	24	8	12
	14 44 31·6	34·65	8·53	58·6	23·5	24	8	13
13	10 36 6·1	2 59·64	7·80	85 51 31·8	17·9	24	8	14
	11 14 49·3	57·69	8·32	45·0	21·8	24	8	15
	12 0 39·6	56·34	7·99	54·2	19·8	24	8	16
15	12 19 55·7	1 7·83	8·43	86 3 27·9	17·7	24	8	17
16	10 13 54·1	2 0 18·19	8·40	8 38·0	16·2	24	8	18
	11 11 46·9	16·19	8·20	53·4	18·0	18	6	19
19	12 7 47·1	1 57 28·73	7·91	25 47·7	17·3	12	4	20
23	10 32 58·8	53 49·60	7·59	86 46 33·0	16·8	24	8	21
26	9 36 3·6	51 5·49	7·49	87 1 1·7	13·4	24	8	22
	10 21 15·8	3·81	7·44	8·4	11·2	24	8	23
27	10 12 36·1	50 10·03	6·69	5 47·3	12·6	24	8	24
28	10 24 16·1	49 15·33	6·54	10 19·5	11·7	24	8	25
31	9 21 26·9	46 37·13	7·21	22 45·6	8·6	8	4	26
Nov. 2	10 5 34·6	44 52·71	7·01	30 35·2	11·3	24	8	27
3	8 54 25·9	44 4·85	7·06	33 59·0	10·9	24	8	28
4	10 46 30·6	43 12·01	6·70	37 39·9	11·5	21	7	29
12	10 36 2·4	37 18·20	5·83	58 8·0	7·1	24	8	30
13	11 27 48·4	36 37·92	6·03	87 59 55·4	8·5	24	8	31
18	9 29 18·3	33 49·14	5·64	88 5 23·8	9·3	16	8	32
22	12 16 5·7	31 56·33	5·60	6 14·4	9·7	15	5	33
24	8 4 41·9	31 15·44	5·30	5 32·1	10·5	24	8	34
	11 35 8·9	12·42	5·27	22·8	6·4	16	8	35
25	11 55 19·7	30 52·19	5·28	4 40·1	6·7	9	3	36
27	8 48 33·9	30 19·37	5·39	2 49·1	6·8	21	7	37
	10 18 43·1	18·41	5·36	48·8	10·9	24	8	38
28	10 32 29·6	30 3·52	5·17	88 1 28·1	7·7	24	8	39
Dec. 22	8 43 54·8	1 32 20·91	+5·30	86 39 55·1	−21·9	24	8	40

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Parallax and computed places taken from Luther and Vogel's ephemeris given in the *Astron. Nachrichten*, No. 773.

The interpolations have been performed by second differences for the Greenwich time of observation, increased by the longitude of Berlin and diminished by the aberration-time; it having been inferred that the ephemeris gives *true* and not *apparent* positions.

Assumed *Mean* Places of Stars of Comparison, 1851·0.

Name.	R.A.	N.P.D.	Set.
	h m s	° ′ ″	
Weisse, ii^h, 347	2 21 5·13*	82 17 25·4	1
— ii^h, 158	10 48·40*	30 35·9	2
— ii^h, 417	25 5·00*	82 46 25·4	3, 4
— ii^h, 309	19 1·19	83 2 56·7	5
B.A.C. 789	27 11·15	10 48·5	6, 7
— 793	27 55·05*	83 49 34·5	8
Anonym. 8th mag.	18 25·45*	84 22 43·0	9
Weisse, ii^h, 312	19 13·64*	84 26 36·7	10
— ii^h, 112	8 0·01	85 2 42·6	11
B.A.C. 687	5 42·48*	41 7·7	12
Weisse, ii^h, 27	3 9·03	37 16·1	13
— ii^h, 35	3 48·36	56 11·2	14
— ii^h, 102	7 12·41	49 40·5	15
— ii^h, 72	5 29·88	56 59·8	16
— ii^h, 51	4 14·39	6 42·3	17, 18
— ii^h, 78	5 57·94	9 56·4	19
B.A.C. 663	2 1 54·49	28 30·8	20
Weisse, i^h, 984	1 54 57·88	86 52 24·7	21
— i^h, 892	50 16·23	87 3 28·5	22
— i^h, 962	53 55·35*	2 11·7	23
— i^h, 860	47 54·06	9 14·0	24, 25
— i^h, 847	47 4·52*	20 24·2	26
B.A.C. 574	45 50·70	87 33 0·0	27, 28, 29
Weisse, i^h, 703	38 50·20	88 2 45·6	30
— i^h, 620	34 11·72*	3 5·5	31 to 34, 38
— i^h, 511	30 38·82*	10 26·3	35
— i^h, 489	28 12·41	88 1 52·7	36, 37, 39
— i^h, 540	1 31 14·25	86 38 9·7	40

Those stars which have an asterisk following their right ascension have been observed three times each on the meridian at Durham in right ascension. The corrections to the *Naut. Alm.* stars used at Greenwich have been applied in finding clock-errors. The north polar distances have not been corrected.

Set 1. Planet a good 10th magnitude.
— 4. Comparisons, from some cause, not very regular.
— 6 and 7. Star's place adopted from Rümker and Henderson.
— 8. B.A.C. 793. Right ascension observed on the meridian. North polar distance corrected approximately by equatoreal comparisons with four neighbouring stars in Weisse. This star appears to have a proper motion of about

+2″·2 in R.A., and −1″·8 in N.P.D.

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Set 9. Star's north polar distance depends on that of Weisse, ii^h, 312.
— 11. Sky most changeable.
— 12. B.A.C. 687 appears to be 1^s in error in right ascension in catalogue.
— 20. Unfavourable night. Star's place taken from the Edinburgh Observations for 1837.
— 21. Unfavourable night. Foggy. Measures affected.
— 24. Objects furry. Atmosphere loaded.
— 26. Measures interrupted by haze coming on.
— 27. Excellent night. Star's place adopted from the Greenwich and Edinburgh Observations.
— 30. Star's north polar distance increased by $5''$ after comparison with Weisse, i^h, 620.
— 35. Weisse, i^h, 511 requires 1^m to be added to its right ascension.
— 40. Star's north polar distance seems suspicious. Two unforeseen interruptions and unusually bad weather have prevented my examining this star and obtaining more observations during December.

PALLAS.

DURHAM. Fraunhofer Equatoreal. (Mr. R. C. Carrington.)

1851.	Green. M.T. h m s	R.A. h m s	Exc. of Ephem. s	N.P.D. ° ′ ″	Exc. of Ephem. ″	No. of Comps. in R.A.	N.P.D.
Oct. 26	13 14 34·5	3 40 45·44	−1·59	114 6 13·9	−27·1	10	5
27	13 2 49·3	3 40 9·11	−1·77	114 22 43·7	−27·4	24	8

Parallax and computed places taken from the *Nautical Almanac*, 1851.

Star for both nights, B.A.C. 1191, taken from the Greenwich Twelve-year Catalogue.

	R.A. h m s	N.P.D. ° ′ ″
1851·0	3 41 15·12	114 20 23·4

The measures on the 26th were unfavourably taken, the planet being near the edge of a cloud. On the 27th well seen.

Extract of a Letter from Professor Argelander.

"I have not been able to find time as yet to complete my memoir on Flamsteed's Observations, my Southern Zones having hitherto occupied me exclusively. A large portion of this work is, however, prepared, and the printing has proceeded as far as the tenth sheet. I hope to complete it before the end of this year. To bring it earlier into the hands of astronomers, I purpose to divide it into three parts; but I can even now furnish star-positions from the MSS. The following places of the stars of comparisons, which